

**REMOVAL PROGRAM  
AFTER ACTION REPORT  
FOR THE  
ALLIED PLATERS SITE  
HARTFORD, HARTFORD COUNTY, CONNECTICUT  
26 SEPTEMBER 2013 THROUGH 6 JANUARY 2014**

Prepared For:

U.S. Environmental Protection Agency  
Region I  
Emergency Planning and Response Branch  
5 Post Office Square, Suite 100  
Boston, Massachusetts 02109-3912

CONTRACT NO. EP-W-05-042

TDD NO. 01-13-08-0002

SITE ID. 01LD

TASK NO. 0898

DC NO. R-7570

Submitted By:

Weston Solutions, Inc.  
Superfund Technical Assessment and Response Team III (START)  
3 Riverside Drive  
Andover, Massachusetts 01810

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## **1.0 INTRODUCTION**

The following report, entitled *Removal Program After Action Report for the Allied Platers Site, Hartford, Hartford County, Connecticut, 26 September 2014 through 6 January 2014*, is a chronological summary of the response actions taken by the U.S. Environmental Protection Agency (EPA), Region I, Emergency Planning and Response Branch (EPRB). The report details the situation as it developed, actions taken, and resources committed.

Site activities included removing and staging scrap metal; conducting perimeter air monitoring; excavating contaminated soil and debris; transporting and disposing of contaminated soil and debris to an EPA-approved off-site disposal facility; collecting post-excavation soil samples for on-site X-Ray Fluorescence (XRF) and off-site laboratory analyses; backfilling and grading excavated areas; and conducting site restoration (chain-link fence installation and asphalt paving).

## **2.0 SITE CONDITIONS AND BACKGROUND**

### **2.1 Site Location and Description**

The Allied Platers site (the site) is located at 523 Park Street (behind and south of 517 Park Street), in Hartford, Hartford County, Connecticut (CT) (see Appendix A, Figure 1) [1]. City of Hartford Tax Assessor records indicate that the site is part of a larger parcel of adjoining properties at 517-523 Park Street, which were built in 1895, and are currently owned by Stephanie Properties, LLC (residential parcel) and Garrox Investments, LLC [2]. Specifically, the site (as the focus of this removal action) consists of the former plating shop building located at 523 Park Street, which is a 0.069-acre level lot zoned for commercial use, along with an adjacent gravel parking area. Allied Platers, Inc. (Allied Platers) leased the former on-site building from approximately 1950 to July 2000. The geographical coordinates at the approximate center of the property are latitude 41° 45' 29" north and longitude 72° 41' 08" west. The site (along with adjoining properties) is bordered to the north by Park Street; to the east by Wolcott Street; to the west by additional mixed residential/industrial buildings; and to the south by 13 Wolcott Street, which contains a paved parking lot (see Appendix A, Figure 2) [3].

### **2.2 Site History/Previous Actions**

Allied Platers (a/k/a Allied Metal Finishing) had operated the facility between 1950 and 2000. The site is the location of a former electroplating and plating shop that has been abandoned since 2000 [4].

In July 1999, Connecticut Department of Environmental Protection (CT DEP), now known as Connecticut Department of Energy and Environmental Protection (CT DEEP), received a complaint regarding the abandonment of hazardous waste at the site. In April 2000, CT DEP Notice of Violation (NOV) 1042 was issued to the former site operator Allied Platers/Allied Metal Finishing for improper closure of the facility.

In August 2001, Fuss & O'Neill performed a Phase I Site Assessment (SA) of the site and adjoining properties, and subsequently prepared an SA report for the City of Hartford. The Phase I SA identified the environmental areas of concern, which necessitated the completion of a Phase II SA to determine if site soil and/or groundwater had been impacted by historical site activities [4].

In November 2001, Joe Toce of Allied Platers provided an updated compliance schedule stating they were awaiting completion of an investigation of contiguous properties being performed by the City of Hartford prior to proposing a remedial program for releases at the site [4].

During December 2001, as part of the Phase II SA, Fuss & O'Neill conducted soil sampling using direct-push technology. In April 2002, Fuss & O'Neill submitted the Phase II SA report, which was prepared for the City of Hartford. The results of the Phase II SA report revealed that on-site operations during the period of 1948 through 1999 had caused contamination in the soil and groundwater which exceeded remedial criteria for the compounds chromium, antimony, and lead. The concentrations of chromium ranged from 50.8 to 86,200 milligrams per kilogram (mg/Kg). The concentration of lead ranged from 14.2 to 39,100 mg/Kg. The concentration of antimony ranged from non-detect (ND) to 1,020 mg/Kg. A water sample was collected from a basement sump and was submitted for analysis with the soil samples. The concentrations of chromium, lead, and antimony in the water sample were 78,300 micrograms per Liter ( $\mu\text{g/L}$ ), 80.2  $\mu\text{g/L}$ , and 1,400  $\mu\text{g/L}$ , respectively [5].

Throughout May, June, and July 2004, Fuss & O'Neill conducted soil and groundwater sampling as part of a Phase III SA. In December 2004, Fuss & O'Neill submitted a Phase III SA Report, which was prepared for the City of Hartford. Hexavalent chromium [Cr (VI)] exceeded the baseline Residential Direct Exposure Criteria (R-DEC) of the Connecticut Remediation Standard Regulations (CT RSRs) in eight soil samples. The highest concentration of Cr(VI) was 1,300 mg/Kg at a depth of 6 feet, while the regulatory limit is 100 mg/kg. Of the eight groundwater samples collected, five samples contained concentrations exceeding the surface water protection criteria (SWPC) for chromium and hexavalent chromium. The SWPC for chromium is 1.2 mg/L, while the highest concentration detected was 1,860 mg/L. The SWPC for hexavalent chromium is 0.11 mg/L, while the highest concentration detected was 2,100 mg/L. The metals contamination was attributed to the Allied Plater's former plating line. In addition, isopleths were created which indicated that contamination had spread off site in a plume [6].

In June 2009, the City of Hartford contacted EPA to request assistance with further characterizing contamination at the site. The City provided all of the previous data demonstrating high levels of contamination.

In October 2010, EPA and Weston Solutions, Inc. Superfund Technical Assessment and Response Team III (START) conducted a site reconnaissance [7]. At the time of the reconnaissance, a removal action was determined to not be necessary due to the intact, secured building and lack of exposure routes of any contaminants. However, since that time, the building's roof has collapsed; and yellow waste, previously identified by CT DEEP as Cr (VI), has been emanating from the eastern side of the building onto the unrestricted gravel parking lot, posing a direct contact threat to residents [8].

In May 2013, CT DEEP Emergency Response Unit (ERU) was requested by the City of Hartford to investigate a potential Cr (VI) release at the property. CT DEEP ERU collected samples and issued an emergency incident report [9]. On 18 July 2013, at the request of Mark DeCaprio of CT DEEP, EPA On-Scene Coordinator (OSC) Eric Vanderboom and CT DEEP representatives Jeff Chandler, Rich Scalora, Robert Shuler, Lisandro Suarez, Edith Pestana, and Jackie Pernell, as well as Kenneth Foscue and three colleagues from Connecticut Department of Public Health (CT DPH), conducted an on-site reconnaissance of the inactive facility. The waste material and the collapsed portion of the building were observed. CT officials also indicated that contaminated groundwater was infiltrating the adjacent building's basement, staining the interior basement wall and support columns yellow.

CT DEEP personnel collected a soil sample and wipe samples from the building's basement and provided the OSC with their emergency incident report, which included photographs and analytical results [10].

The City and State collaborated to demolish the facility, leaving only contaminated soil, concrete, and some standing water to be addressed in their request for assistance to EPA.

### 3.0 **SUMMARY OF FEDERAL RESPONSE ACTIONS**

#### 3.1 **Organization of the Response**

ORGANIZATION OF THE RESPONSE		
Organization	Representatives	Responsibilities
U.S. Environmental Protection Agency (EPA) Emergency Planning and Response Branch (EPRB) 5 Post Office Square, Suite 100 Boston, MA 02109 (617) 918-1259 (Eric Vanderboom) (617) 918-1268 (Mike Nalipinski)	Eric Vanderboom Mike Nalipinski	EPA On-Scene Coordinators (OSCs) responsible for the initiation, oversight, and completion of all removal activities. The OSCs coordinated with State and local officials.
Weston Solutions, Inc. (Weston) Superfund Technical Assessment and Response Team (START) 3 Riverside Drive Andover, MA 01810 (978) 552-2106	Jonathan Saylor	START Site Personnel that provided the OSC with technical assistance, site documentation, site health and safety monitoring, air monitoring, and draft and final report preparation.
Environmental Restoration, LLC (ER) Emergency Rapid Response Services (ERRS) 110 Granby Street Bloomfield, CT 06002 (860) 769-7356	Blake MacKinney	Response Manager (RM) for the ERRS contractor that performed removal activities. The RM was responsible for oversight and organization of mobilization, demobilization, and waste removal activities.
Connecticut Department of Energy and Environmental Protection (CT DEEP) 79 Elm Street Hartford, CT 06106-5127 Main Phone: (860) 424-3000	Edith Pestana Lisandro Suarez Jackie Pernell Jeff Chandler Rich Scalora Robert Shuler	State representatives.
City of Hartford 550 Main Street Hartford, CT 06103-2911 (860) 543-8513	Michael Fuschi	City representative that was responsible for the oversight of the building demolition and removal of associated debris.

#### 3.2 **Mobilization and Site Preparation**

The site-specific removal health and safety plan (HASP) was reviewed and signed by all personnel before any work commenced. In addition, emergency telephone numbers and directions to the hospital were posted and work zones were delineated. All activities were performed in appropriate personal protective equipment (PPE) in accordance with the HASP. The HASP was prepared by

START personnel as a separate document, entitled *Health and Safety Plan for the Allied Platers Site, Hartford, Hartford County, Connecticut*. On 7 November 2013, the mobilization and staging of Emergency Rapid Response Services (ERRS) equipment was initiated.

Site preparation activities conducted by ERRS personnel consisted of clearing existing fencing, posts, and debris; segregating pieces of scrap metal; establishing a temporary perimeter fence at the site; and mobilizing equipment to site.

### **3.3 Chronology of Removal Activities**

#### **Week of 5 August 2013**

On 8 August 2013, EPA Office of Site Remediation and Restoration (OSRR) Division Director James T. Owens III, signed the Action Memorandum approving the proposed removal action [8].

#### **Week of 23 September 2013**

A site walk was conducted with the following personnel: EPA OSC Mike Nalipinski, ERRS Response Manager (RM) Blake MacKinney, ERRS Transportation and Disposal (T&D) Coordinator Amy Riggott, and ERRS member Pat Sommers. ERRS T&D Coordinator Riggott collected samples for disposal analysis.

#### **Week of 4 November 2013**

Personnel on site:

OSC – EPA	Eric Vanderboom
START – Weston	Jonathan Saylor
Response Manager – ER	Blake MacKinney Chris May
Crew – ER	2 operators 1 laborer

Equipment on site:

<b>Type</b>	<b>Quantity</b>
Excavator with thumb	1
Excavator with Hoe-ram	1
Portable Toilet	1
Wash Station	1
Water Trailer	1
Pick-Up Truck	2

Activities for the week included:

- Reviewing and signing the site HASP.
- Staging equipment, and delineating work zones [Clean Zone (CZ), Contamination Reduction Zone (CRZ), and Exclusion Zone (EZ)].
- Uncovering and investigating the contents of an underground storage tank (UST) in the northwest corner of the property.

- Establishing temporary fencing along the perimeter of the site, including the excavation area surrounding the 1,000-gallon UST.
- Using heavy equipment (excavator and excavator with hoe-ram) to break up, stockpile, and consolidate contaminated materials in the EZ.
- Pumping contaminated water and removing boiler components from a sub-floor area of the former building.
- Conducting air monitoring for particulates, volatile organic compounds (VOCs), and explosive atmosphere.

For the duration of removal activities, START Site Leader (SL) Saylor used DustTrak particulate monitors to conduct perimeter air monitoring, and photodocumented removal activities (see Appendix C, Photodocumentation Log). In addition, the ERRS crew secured the excavated soil piles with polyethylene liners at the end of each day.

#### Key Dates:

On 7 November 2013, CT Hazardous Materials Responders Rich Scalora and Jeff Chandler were on site to observe operations and advise on the location of the UST in the northwest corner of the property. Additionally, CT DEEP Representatives Edith Pestana and Lisandro Suarez were on site to observe operations and speak with OSC Eric Vanderboom.

On 8 November 2013, one truckload of gravel fill was delivered by Herb Holden Trucking.

On 8 November 2013, CT Hazardous Materials Responders Scalora and Shuler were on site to sample the 1,000-gallon UST. It was determined during sampling that the UST contained heating oil, and a sample was collected for confirmatory analysis. CT DEEP Representatives Pestana and Suarez were on site to observe sampling operations and to obtain access to the alleyway at 517 Park Street.

On 8 November 2013, a truck from Tradebe Treatment and Recycling was on site to pump a total of 1,464 gallons of contaminated water from the sub-floor area of the former building.

#### **Week of 11 November 2013**

##### Personnel on site:

OSC – EPA	Eric Vanderboom
START – Weston	Jonathan Saylor
Response Manager – ER	Blake MacKinney
Crew – ER	2 operators 1 laborer

##### Equipment on site:

Type	Quantity
Excavator with thumb	1
Excavator with Hoe-ram	1
Office Trailer	1
Portable Toilet	1
Wash Station	1
Water Trailer	1



<b>Type</b>	<b>Quantity</b>
Pick-Up Truck	2
Skid Steer	1
Generator	1

Activities for the week included:

- Using heavy equipment (excavator and excavator with Hoe-ram) to break up, stockpile, and consolidate contaminated materials in the EZ.
- Screening composite post-excavation soil samples for lead and total chromium using the X-Ray Fluorescence Spectrometry Analyzer (XRF).
- Removing, transporting, and disposing of contaminated material to treatment and landfill facilities: Envirite of Pennsylvania Inc., located in York, Pennsylvania, and EQ Detroit Inc., located in Detroit, Michigan.
- Decontaminating the Hoe-ram-equipped excavator for return to the rental company.
- Pumping the heating oil from the UST, and removing the UST from the northwest corner of the property.

Key Dates:

On 12 November 2013, CT Hazardous Materials Responder Scalora met with OSC Vanderboom to discuss removal of the contents of the UST. CT DEEP Representative Suarez was on site to observe operations and to obtain access to the alleyway at 517 Park Street. City of Hartford Representative Michael Fuschi stopped by the site to meet with OSC Vanderboom and observe operations.

On 13 November 2013, CT DEEP Representative Suarez was on site to observe operations. T&D vendor, Peter Long, of EQ Detroit, Inc., stopped by the site to discuss T&D activities with RM MacKinney. A representative from the fencing company was on site to provide an estimate for fencing and repairs along the site perimeter.

On 14 November 2013, CT Hazardous Materials Responder Scalora was on site to supervise the pumping of oil from the UST, and the removal of the UST. A truck from Alpine Environmental was on site to pump 1,142 gallons of oil from the UST. ERRS personnel opened and thoroughly rinsed the inside of the UST using the water tank and sprayer.

During the week of 11 November 2013, a total of 21 truckloads (approximately 410 tons) of contaminated material were removed from the site.

### **Week of 18 November 2013**

Personnel on site:

OSC – EPA	Mike Nalipinski
START – Weston	Jonathan Saylor
Response Manager – ER	Blake MacKinney
Crew – ER	1 operator 1 laborer

Equipment on site:

<b>Type</b>	<b>Quantity</b>
Large Excavator	1
Office Trailer	1
Portable Toilet	1
Wash Station	1
Water Trailer	1
Skid Steer	1
Air Trailer	1
Jack Hammer	1

Activities for the week included:

- Using heavy equipment (excavator) to stockpile and consolidate contaminated materials in the EZ.
- Screening composite post-excavation soil samples for lead and total chromium using an XRF.
- Decontaminating, removing, and transporting all scrap metal, including the UST, off site for recycling.
- Breaking the concrete foundation along the edges of the contamination area.
- Decontaminating all heavy equipment and materials used in the EZ.
- Backfilling the site with fill material.
- Initiating demobilization activities.
- Delivering samples to the EPA Office of Environmental Measurement and Evaluation (OEME) Laboratory in North Chelmsford, Massachusetts (MA).

Key Dates:

During the week of 18 November 2013, a total of three truckloads (approximately 67 tons) of contaminated material were removed from the site.

### **Week of 25 November 2013**

Personnel on site:

Response Manager – ER	Blake MacKinney
Crew – ER	1 operator

Equipment on site:

<b>Type</b>	<b>Quantity</b>
Skid Steer	1
Rack Truck	1

Activities for the week included:

- Completing the backfilling of the site with fill material (gravel).
- Sweeping the staging parking lot.

### **Week of 2 December 2013**

Personnel on site:

Response Manager – ER	Blake MacKinney
-----------------------	-----------------

Activities for the week included:

- Installing asphalt over the former UST location.

### **Week of 6 January 2014**

Personnel on site:

Response Manager – ER	Blake MacKinney
Crew – ER	1 operator 1 laborer

Activities for the week included:

- Installing fence around the site.

On 14 January 2014, all activities were completed, and all equipment and personnel were demobilized.

## **4.0 ESTIMATED COSTS OF THE REMOVAL ACTION**

EPA resources committed under this Removal Action are summarized below:

Cost Category	Ceiling	Costs Incurred	Remainder
<b>Regional Removal Allowance Costs</b>			
<b>ERRS</b>	<b>\$320,000</b>	<b>\$189,697</b>	<b>\$130,303</b>
<b>Other Extramural Costs Not Funded from the Regional Allowance</b>			
<b>START Contractor</b>	<b>\$40,000</b>	<b>\$28,000</b>	<b>\$12,000</b>
<b>Extramural Contingency</b>	<b>\$36,000</b>	<b>\$0</b>	<b>\$36,000</b>
<b>Total Removal Project Costs</b>	<b>\$396,000</b>	<b>\$217,697</b>	<b>\$178,303</b>

This accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

## **REFERENCES**

- [1] U.S. Geological Survey (USGS). 1985. Hartford North and Hartford South, Connecticut (7.5-minute series topographic map).
- [2] City of Hartford, Connecticut. 2009. Unofficial Property Record Card, RE: 517 Park Street and 523 Park Street.
- [3] ESRI, i-cubed, USDA FSA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGP. 2011. ArcGIS.com World Imagery Map. 30 March.
- [4] Fuss & O'Neill, Inc. 2001. *Phase I Environmental Site Assessment, 507-513, 517-525, 531-533 Park Street & 13 Wolcott Street, Hartford, Connecticut*. August.
- [5] Fuss & O'Neill, Inc. 2002. *Brownsfields Phase II Environmental Site Investigation, Park/Broad Redevelopment Project, Brownfields Pilot Project Site II, Hartford, Connecticut*. April.
- [6] Fuss & O'Neill, Inc. 2004. *Phase III Environmental Site Assessment, Former Allied Plating Facility, 525 Park Street,, Hartford, Connecticut*. December.
- [7] Weston Solutions, Inc. 2010. Memorandum to the Allied Platers Site File, RE: Site Reconnaissance Activities at the Allied Platers Site, Hartford, Hartford County, Connecticut. TDD Number (No.) 01-09-04-0010; Task No. 0541; Document Control (DC) No. R-6479. 2 December.
- [8] Environmental Protection Agency (EPA), On-Scene Coordinator, Emergency Response and Removal Section I (ER&R S1). 2013. Memorandum to the Allied Platers Site File, SUBJ: Request for a Removal Action at the Allied Platers Site, Hartford, Hartford County, Connecticut – Action Memorandum. 7 August.
- [9] Connecticut Department of Energy and Environmental Protection (CT DEEP). 2013. Emergency Incident Report. 9 May.
- [10] Environmental Protection Agency (EPA), On-Scene Coordinator, Emergency Response and Removal Section I (ER&R S1). 2013. Memorandum to the Allied Platers Site File, SUBJ: Site Investigation Closure at the Allied Platers Site, 525 Park Street, Hartford, CT, 06106. 29 July.

## Appendices

## Appendix A

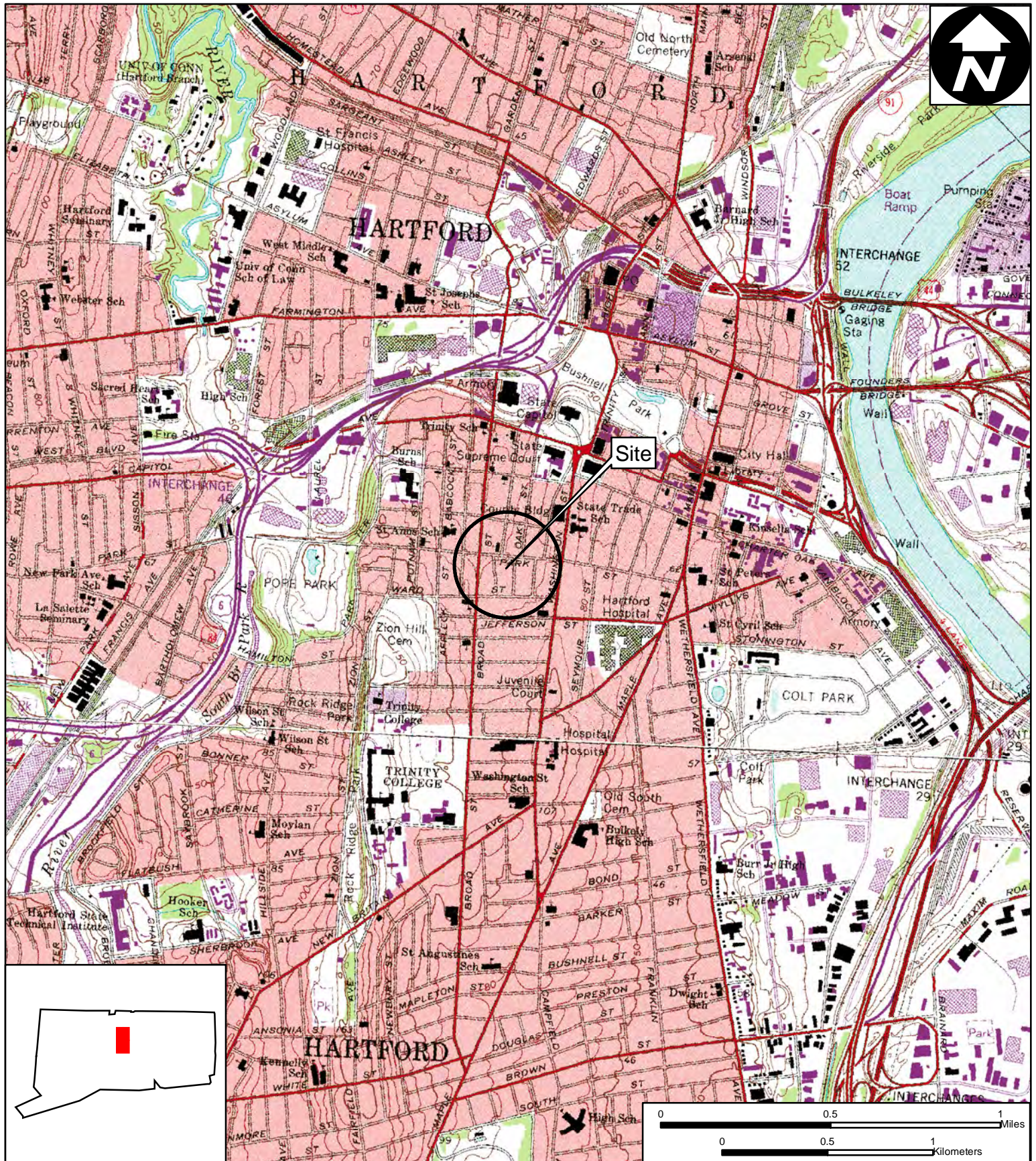
### Figures

Figure 1 - Site Location Map

Figure 2 - Site Diagram

Figure 3 - Post-Excavation Soil Sample Location Map





**Figure 1**

**Site Location Map**

**Allied Platers**  
**523 Park Street**  
**Hartford, Connecticut**

**EPA Region I**  
**Superfund Technical Assessment and**  
**Response Team (START) III**  
**Contract No. EP-W-05-042**

**TDD Number:** 13-08-0002  
**Created by:** B. Mace  
**Created on:** 22 October 2013  
**Modified by:** B. Mace  
**Modified on:** 9 December 2013

**Data Sources:**

Topos: MicroPath/USGS  
 Quadrangle Names: Hartford North, Hartford South  
 All other data: START







**Figure 2**



**Site Diagram**

**Allied Platers  
523 Park Street  
Hartford, Connecticut**

**EPA Region I  
Superfund Technical Assessment and  
Response Team (START) III  
Contract No. EP-W-05-042**

**TDD Number:** 13-08-0002  
**Created by:** B. Mace  
**Created on:** 22 October 2013  
**Modified by:** B. Mace  
**Modified on:** 9 December 2013

**Legend**

-  Approximate Site Boundary  
 Approximate Parcel Boundary



0 25 50  
Feet

**Data Sources:**

Imagery: Esri, i-cubed, USDA, USGS, AEX,  
GeoEye, Getmapping, Aerogrid, IGN, IGP  
Topos: MicroPath  
All other data: START










**Figure 3**  
**Post-Excavation**  
**Soil Sample Location Map**  
**Allied Platers**  
**523 Park Street**  
**Hartford, Connecticut**


**EPA Region I**  
**Superfund Technical Assessment and**  
**Response Team (START) III**  
**Contract No. EP-W-05-042**  
**TDD Number:** 13-08-0002  
**Created by:** B. Mace  
**Created on:** 2 December 2013  
**Modified by:** B. Mace  
**Modified on:** 9 December 2013

**Legend**


 Approximate Site Boundary

 Sample Grid Locations

 Air Monitoring Locations



**Feet**



0 20 40

**Data Sources:**  
Imagery: Esri, i-cubed, USDA, USGS, AEX,  
GeoEye, Getmapping, Aerogrid, IGN, IGP  
Topos: MicroPath  
All other data: START



## Appendix B

### Photodocumentation Log

**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the Allied Platers site prior to Removal Action activities. Photograph taken facing north.

**DATE:** 7 November 2013

**TIME:** 0905 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**SCENE:** View of the support zone and a Dustrack particulate aerosol monitor. Photograph taken facing east.

**DATE:** 7 November 2013

**TIME:** 1107 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the excavation of the underground storage tank (UST) from the northwest portion of the site. Photograph taken facing southwest.

**DATE:** 7 November 2013

**TIME:** 1347 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**SCENE:** View of the exclusion zone with demolished concrete foundation and green staining. Photograph taken facing north.

**DATE:** 8 November 2013

**TIME:** 0848 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the exclusion zone with demolished concrete foundation and a stockpile of excavated contaminated material. Photograph taken facing northwest.

**DATE:** 8 November 2013

**PHOTOGRAPHER:** Jonathan Saylor

**TIME:** 1132 hours

**CAMERA:** Apple iPhone 4S



**SCENE:** View of the sub-floor area filled with boiler room debris and green staining on the walls.

**DATE:** 8 November 2013

**PHOTOGRAPHER:** Jonathan Saylor

**TIME:** 1316 hours

**CAMERA:** Apple iPhone 4S

**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the loading of excavated soil for transport and disposal off site. Photograph taken facing northeast.

**DATE:** 12 November 2013

**TIME:** 1423 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**SCENE:** View of the excavated soil stockpile and scrap metal pile. Photograph taken facing west.

**DATE:** 13 November 2013

**TIME:** 1040 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the loading of excavated soil for transport and disposal off site. Photograph taken facing west.

**DATE:** 13 November 2013

**TIME:** 1127 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**SCENE:** View of the UST removal. Photograph taken facing west.

**DATE:** 14 November 2013

**TIME:** 1101 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S

**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the UST being pumped and rinsed following removal. Photograph taken facing southeast.

**DATE:** 14 November 2013

**TIME:** 1154 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**SCENE:** View of the excavation of contaminated soil. Photograph taken facing west.

**DATE:** 18 November 2013

**TIME:** 0900 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the final excavation grade (3-feet below ground surface) and the demarcation layer (high-visibility plastic fencing). Photograph taken facing northwest.

**DATE:** 18 November 2013

**PHOTOGRAPHER:** Jonathan Saylor

**TIME:** 1346 hours

**CAMERA:** Apple iPhone 4S



**SCENE:** View of backfilling activities. Photograph taken facing north.

**DATE:** 19 November 2013

**PHOTOGRAPHER:** Jonathan Saylor

**TIME:** 1447 hours

**CAMERA:** Apple iPhone 4S

**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the loading of excavated soil for transport and disposal off site. Photograph taken facing northwest.

**DATE:** 20 November 2013

**TIME:** 1325 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**SCENE:** View of backfilling activities. Photograph taken facing northwest.

**DATE:** 20 November 2013

**TIME:** 1503 hours

**PHOTOGRAPHER:** Jonathan Saylor

**CAMERA:** Apple iPhone 4S



**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of Emergency Rapid Response Services (ERRS) personnel demolishing concrete foundation using an pneumatic hammer. Photograph taken facing west.

**DATE:** 21 November 2013

**PHOTOGRAPHER:** Jonathan Saylor

**TIME:** 0803 hours

**CAMERA:** Apple iPhone 4S



**SCENE:** View of backfilling activities. Photograph taken facing north.

**DATE:** 21 November 2013

**PHOTOGRAPHER:** Jonathan Saylor

**TIME:** 0835 hours

**CAMERA:** Apple iPhone 4S

**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of final grading with gravel. Photograph taken facing west.

**DATE:** 25 November 2013

**TIME:** 1149 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710



**SCENE:** View of final grading with gravel. Photograph taken facing northwest.

**DATE:** 25 November 2013

**TIME:** 1149 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710



**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of final grading with gravel. Photograph taken facing east.

**DATE:** 25 November 2013

**TIME:** 1151 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710



**SCENE:** View of asphalt paving over the former UST location. Photograph taken facing north.

**DATE:** 2 December 2013

**TIME:** 1122 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710

**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the 6-foot fence along Wolcott Street. Photograph taken facing north.

**DATE:** 3 January 2014

**TIME:** 1206 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710



**SCENE:** View of the 8-foot fence moved to the excavation area. Photograph taken facing north.

**DATE:** 3 January 2014

**TIME:** 1208 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710

**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the 8-foot fence with buckets inside the fence. Photograph taken facing northeast.

**DATE:** 3 January 2014

**TIME:** 1208 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710



**SCENE:** View of the buckets inside the fence. Photograph taken facing northeast.

**DATE:** 3 January 2014

**TIME:** 1208 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710



**PHOTODOCUMENTATION LOG**  
**Allied Platers Site • Hartford, Connecticut**



**SCENE:** View of the repaired 8-foot fence following UST removal. Photograph taken facing northwest.

**DATE:** 3 January 2014

**TIME:** 1208 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710



**SCENE:** View of the repaired 6-foot fence in the parking lot. Photograph taken facing east.

**DATE:** 8 January 2014

**TIME:** 1355 hours

**PHOTOGRAPHER:** Blake MacKinney

**CAMERA:** Samsung SPH-D710



## Appendix C

Table 1 - XRF and Confirmation Metals Results - Post-Excavation Soil Samples

TABLE 1

**XRF AND CONFIRMATION METALS RESULTS  
POST-EXCAVATION SOIL SAMPLES  
ALLIED PLATERS  
HARTFORD, CONNECTICUT**

SAMPLE LOCATION		C2		C1		B1		B2	
SAMPLE NUMBER		XRF	0898.00-0002	XRF	0898.00-0003	XRF	0898.00-0004	XRF	0898.00-0005
COLLECTION DATE		SCREENING	11/18/2013	SCREENING	11/19/2013	SCREENING	11/20/2013	SCREENING	11/20/2013
PARAMETER	CT DEEP DEC Res								
Aluminum	NL	NA	18,000	NA	15,000	NA	8,200	NA	13,000
Arsenic	10	NA	ND	NA	ND	NA	5	NA	ND
Barium	4,700	NA	170	NA	75	NA	130	NA	200
Calcium	NL	NA	690	NA	4,000	NA	21,000	NA	7,100
Cadmium	34	NA	ND	NA	ND	NA	1.0	NA	ND
Cobalt	NL	NA	ND	NA	ND	NA	6.1	NA	ND
Chromium, Total	3,900	<b>14,700</b>	<b>21,000</b>	<b>4,303</b>	<b>14,000</b>	644	470	<b>8,553</b>	<b>8,900</b>
Chromium, Hexavalent	100	NA	<b>4,300</b>	NA	<b>2,000</b>	NA	<b>140</b>	NA	<b>1,800</b>
Copper	2,500	NA	130	NA	110	NA	59	NA	110
Iron	NL	NA	30,000	NA	24,000	NA	15,000	NA	26,000
Magnesium	NL	NA	5,500	NA	4,800	NA	4,400	NA	5,800
Manganese	NL	NA	510	NA	410	NA	250	NA	480
Nickel	1,400	NA	ND	NA	ND	NA	13	NA	30
Lead	400	89	93	154	130	286	370	342	<b>670</b>
Vanadium	470	NA	ND	NA	42	NA	34	NA	45
Zinc	20,000	NA	140	NA	140	NA	210	NA	230

**NOTES:**

- 1) Soil samples were field analyzed by START with an X-Ray Fluorescence Spectrometry Analyzer (XRF) using Weston Solutions SOP WSI/S3029 For Field Screening Metals In Soil Samples. Units in parts per million (ppm), equivalent to milligrams per Kilogram (mg/Kg).
- 2) Confirmatory samples were analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-OPTIMAS0, Metals in Soil Medium Level by Inductively Coupled Plasma (ICP). Hexavalent chromium analysis performed by Alpha Analytical Laboratories using EPA SW-846, Test Methods for Evaluating Solid Waste. Results in mg/Kg.
- 3) CT DEEP DEC Res = Connecticut Department of Energy and Environmental Protection Direct Exposure Criteria for Soil, Residential Criteria.
- 4) NA = Not Analyzed.
- 5) ND = Not Detected.
- 6) NL = Not Listed.
- 7) Bolded and shaded results exceed CT DEEP DEC Res.

TABLE 1

**XRF AND CONFIRMATION METALS RESULTS  
POST-EXCAVATION SOIL SAMPLES  
ALLIED PLATERS  
HARTFORD, CONNECTICUT**

SAMPLE LOCATION		A1		A2		A201			
SAMPLE NUMBER		XRF	0898.00-0006	XRF	0898.00-0007	XRF	0898.00-0008		
COLLECTION DATE		SCREENING	11/20/2013	SCREENING	11/20/2013	SCREENING	11/20/2013		
PARAMETER	CT DEEP DEC Res								
Aluminum	NL	NA	16,000	NA	13,000	NA	12,000		
Arsenic	10	NA	ND	NA	ND	NA	ND		
Barium	4,700	NA	340	NA	280	NA	250		
Calcium	NL	NA	9,200	NA	4,300	NA	3,500		
Cadmium	34	NA	ND	NA	ND	NA	ND		
Cobalt	NL	NA	14	NA	ND	NA	ND		
Chromium, Total	3,900	2,654	2,600	<b>10,600</b>	<b>9,400</b>	NA	<b>9,300</b>		
Chromium, Hexavalent	100	NA	<b>580</b>	NA	<b>3,000</b>	NA	<b>2,800</b>		
Copper	2,500	NA	130	NA	150	NA	140		
Iron	NL	NA	29,000	NA	27,000	NA	26,000		
Magnesium	NL	NA	6,500	NA	4,800	NA	4,300		
Manganese	NL	NA	920	NA	450	NA	470		
Nickel	1,400	NA	140	NA	ND	NA	ND		
Lead	400	<b>933</b>	<b>1,100</b>	<b>591</b>	<b>860</b>	NA	<b>560</b>		
Vanadium	470	NA	50	NA	54	NA	52		
Zinc	20,000	NA	470	NA	200	NA	150		

**NOTES:**

- 1) Soil samples were field analyzed by START with an X-Ray Fluorescence Spectrometry Analyzer (XRF) using Weston Solutions SOP WSI/S3029 For Field Screening Metals In Soil Samples. Units in parts per million (ppm), equivalent to milligrams per Kilogram (mg/Kg).
- 2) Confirmatory samples were analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-OPTIMAS0, Metals in Soil Medium Level by Inductively Coupled Plasma (ICP). Hexavalent chromium analysis performed by Alpha Analytical Laboratories using EPA SW-846, Test Methods for Evaluating Solid Waste. Results in mg/Kg.
- 3) CT DEEP DEC Res = Connecticut Department of Energy and Environmental Protection Direct Exposure Criteria for Soil, Residential Criteria.
- 4) NA = Not Analyzed.
- 5) ND = Not Detected.
- 6) NL = Not Listed.
- 7) Bolded and shaded results exceed CT DEEP DEC Res.

## Appendix D

### Waste Disposal Summary Table

**WASTE DISPOSAL SUMMARY TABLE**  
**ALLIED PLATERS**  
**HARTFORD, CONNECTICUT**

Manifest No.	Date of Shipment	Description	Containers		Total Quantity	Transporter	Destination
			No.	Type			
011511486 JJK	11/8/2013	NA 3082, Hazardous Waste Liquid, N.O.S. (Chromium), 9, PG III, RQ	1	TP	1,464 G EST	Tradebe Treatment and Recycling Northeast, LLC 136 Gracey Avenue Meriden, CT 06451	Tradebe Treatment and Recycling Northeast, LLC 136 Gracey Avenue Meriden, CT 06451
012069737 JJK	11/12/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	J&D Trucking, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17404
012069738 JJK	11/12/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	28,000 P EST	J&D Trucking, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17405
012069740 JJK	11/12/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	J&D Trucking, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17406
012069741 JJK	11/12/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	J&D Trucking, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17407
012069742 JJK	11/12/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	J&D Trucking, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17408
012069743 JJK	11/12/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	J&D Trucking, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17409
012069744 JJK	11/12/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	J&D Trucking, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17410
012069749 JJK	11/14/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	J&D Trucking, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17411
012069752 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	US Bulk Transport, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17412
012069753 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	US Bulk Transport, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17413
012069754 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	US Bulk Transport, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17414
012069755 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	J&D Trucking, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17415
012069886 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	22,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48211

**WASTE DISPOSAL SUMMARY TABLE  
ALLIED PLATERS  
HARTFORD, CONNECTICUT**

Manifest No.	Date of Shipment	Description	Containers		Total Quantity	Transporter	Destination
			No.	Type			
012069887 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	40,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48212
012069888 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	40,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48213
012069889 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	20,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48214
012069890 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	40,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48215
012069891 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	42,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48216
012069892 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	42,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48217
012069893 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	28,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48218
012069894 JJK	11/15/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	40,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48219
012069857 JJK	11/19/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	42,000 P EST	J&D Trucking, Inc./ NYS & W Railway	EQ Detroit, Inc. 1923 Frederick Detroit, MI 48220
012069746JJK	11/20/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	44,000 P EST	US Bulk Transport, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17404
012069756 JJK	11/20/2013	RQ, NA3077, Hazardous Waste Solid, N.O.S. (Chromium), 9, PG III, (0007)	1	DT	48,000 P EST	US Bulk Transport, Inc.	Envirite of Pennsylvania, Inc. 730 Vogelsong Road York, PA 17404

**NOTES:**

No. = Number.  
n.o.s. = Not otherwise specified.  
PG = Packing Group.  
RQ = Reportable Quantity.  
TP = Portable tanks.  
G = Gallons.  
EST = Estimated.

CT = Connecticut.  
DT = Dump Truck.  
P = Pounds.  
PA = Pennsylvania.  
MI = Michigan.  
NYS & W = New York Susquehanna & Western.